Ham-Digital Digest   Mon, 29 Aug 94   Volume 94 : Issue 288

Today's Topics:
                       Broad up handheld's band
                          9k6 with Icom IC04 ?
                           ATM over radio...
                        Graphic Packet on XT?
                        HF Packet (Mac vs PC)
                       IM_Mac1.0b28b.sea.hqx.text
                      Jnos and PK232MBX ? (2 msgs)
                        JVFAX 7.00 Excellent !!!
                       MSYS and WP pages (2 msgs)
                   RS232 and RTTY? Which pin is which?
                        What SB for Digital modes?
                 Will my radio work as a packet station???

Date: 27 Aug 1994 22:42:31 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!EU.net!
relay.puug.pt!gnu.mat.uc.pt!usenet@network.ucsd.edu
Subject: Broad up handheld's band
To: ham-digital@ucsd.edu

Hi. I have a handheld, Kenwood TH-22E, that transmits from 144 to 146 MHz FM.
-Does anyone know the code that permits to broad up the band to 136-170 MHz FM?
Also, does any kow of any books that say anything more than the manual says?
Many thanks in advance.

F.Salzedas
fcomp5@ciuc.uc.pt
salzedas@fteor.uc.pt

Date: Sat, 27 Aug 1994 09:45:39 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!
uhog.mit.edu!news.mtholyoke.@@ihnp4.ucsd.edu
Subject: 9k6 with Icom IC04 ?
To: ham-digital@ucsd.edu

pme@it.kth.SE wrote:
: Is there anyone that have been successful with g3ruh modems with
: a Icom IC04A/E/AT ? Is there any ftp sites where i can find information
: about modifying rigs to work with RUH modems ?

: /Peter SM0OHI

Because of the very slow TX/RX switching times I would not reccomend trying
to use any of the O2/O3/O4 series Icoms for packet - 1200 or 9600. For that
matter, handhelds in general are probably something most hams are not up to
modifying for 9600.

I don't know what sort of availability you have to the radio manufacturer
'TEKK'. In the US they are selling radios designed specificly for data
applications. The original application was in the 450+ MHz business band,
but due to interest from the amateur community, they have started offering
the radio in a 430-450 MHz version. The company will cut and install
crystals the radio for the specific RX and TX frequencies you need and
burn-in the radio with crystals prior to shipment. They even re-align the
radio after the burn-in. Turnaround on orders here has been about 1 month.
It is my understanding that the radios are actually manufactured outside the
US, and the crystalling and tuning for US shipments is done in the US
facility. So if you can locate a supplier of the radios close to home, you
may be able to get these radios very reasonably. By the way, pricing in the
US is about $140, delivered. At this price, if 2 watts is enough, its a
much better solution than modifying a mobile radio, especially since the
modified radio is usually a performance compromise.

You might try looking on 'ftp.ucsd.edu' in the /hamradio/packet directory
area for info. Since all the 9600 baud amateur modems have the same general
requirements of the radios, don't discount the information if is does not
specificly mention the G3RUH modem. WD6EHR wrote a good guide to 9600
modifications some time ago, and I beleive he intended to update it as
information about additional radios was developed, so you might want to mail
an assistance request to him.

I hope some of this information is of use to you

73, Bob

--

| Bob Donnell, kd7nm   bob@ethanac.kd7nm.ampr.org   rdonnell@eskimo.com |
| Western Washington Amateur IP Address Coordinator   (206) 775-3651 |

Date: Mon, 29 Aug 1994 06:39:09 GMT
From: maestro!GWOODY@uunet.uu.net
Subject: ATM over radio...
To: ham-digital@ucsd.edu

Steve Bush (sbush@erlang.tisl.ukans.edu) wrote:

> I have a few questions concerning digital radio protocols.
> First, does anyone have any good references for ATM over radio ?
> Second, does anyone have any good references for general packet radio
> protocols ?
> Third, can someone tell me the address of the mobile-ip mailing list ?

>   Thanks,
>   Steve Bush

Steve,
   The American Radio Relay League (ARRL) may be able to supply you with
some of the info you requested. Send an e-mail with the words "send info"
(no quotes) as the body, to info@arrl.org

-Gene
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 _____   _ | | _____
New York - the city						.^. /		gwoody@maestro.com
that makes it's own				|_ .^.			|_	nrmy23a@prodigy.com
gravy when it rains.|_				|-._| |-|	_ -|			WA2BCM
_____|_|| |_| |_|_|_| |_| ||_|_| |_|_|_____

Date: 28 Aug 1994 10:35:02 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Graphic Packet on XT?
To: ham-digital@ucsd.edu

Can Graphic Packet be used on an XT? I cannnot get it to run, TFPCR that
I
have is compiled for use with 286 or above. (it does work well on my 386
but would like to run it on an XT).

Date: Sat, 27 Aug 1994 10:13:44 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!eff!news.kei.com!uhog.mit.edu!news.mtholyoke.edu!news.byu.edu!
netline-fddi.jpl.nasa.gov@ihnp4.ucsd.edu
Subject: HF Packet (Mac vs PC)
To: ham-digital@ucsd.edu

david kelly (dkelly@nebula.tbe.COM) wrote:

: Unless there is some reason you CAN NOT use a Macintosh, a Macintosh will
: never bother you about video drivers, video modes, mouse drivers, "real"
: mode, AUTOEXEC.BAT, CONFIG.SYS, Extended Memory vs. Expanded Memory, memory
: managers, HIDOS, IRQ conflicts, CD-ROM drivers & cards, sound cards, and the
: magical 640k limit.

There is almost no >good< software for the Mac for amateur or shipboard
applications. As a former Tech Rep (and Mac products specialist) for AEA,
maker of the PK-232MBX, I know that the Mac software that AEA had to offer
as of 5 months ago is very out of date, and there was virtually no prospect
of it ever being updated. The software they did have was B/W only, and not
System 7 aware. From comments I heard got from users, it was the best they
could find, but definitly not first-line software.

As a shipboard user, you will be interested to know that there were (also as
of 5 months ago) no offerings at all for grey-scale fax reception/display
for the Mac, anywhere, for any price, that I had heard of. I had >lots< of
requests for this kind of capability, and after looking at the prices of
stand-alone FAX printers, a few of the Mac users decided to get a PC laptop
just for receiving FAX. This is a great frustration to a lot of the marine
dealers too, as the Mac laptops appear to be rather popular among the
boating community.

I helped my folks get going with a Mac in '85, and just got them a newer
system this year. It's not what I use at home, probably primarily because
I'm one of those 'command line oriented' kinda guys. I spend more time now
using Linux than Dos, and only occasionally fire up Windoze for a GUI. I've
got the carcass of my folks old Mac, and one of these days I'll graft a new
monitor to it - then I may not use Windoze at all! As a fan of the Mac in a

general sense, its really too bad that with all it has going for it, that
there are so few amateurs who are willing or able to develop software for
it.

: 73, David Kelly, N4HHE
: dkelly@nebula.tbe.com

73, Bob

--

| Bob Donnell, kd7nm   bob@ethanac.kd7nm.ampr.org   rdonnell@eskimo.com |
| Western Washington Amateur IP Address Coordinator   (206) 775-3651 |

Date: 29 Aug 94 08:37:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: IM_Mac1.0b28b.sea.hqx.text
To: ham-digital@ucsd.edu

=20
Release Notes - IM/Mac 1.0=A728b

- Included support for StuffIt Engine 3.5.1. When decoding a
  message, the temporary '.sit' file is kept in the Temporary Items
  folder and no longer in the directory that holds IM/Mac (as it was
  before System Update 3.0). StuffIt Engine 3.5.1 no longer resets
  volume and directory, so subsequent decodes will correctly point to
  the last used directory.

Tuesday, August 2, 1994 - 18:29:29 UTC

Best 73's, es cuagn de Ivo, ON1XK @ ON6AR.#AN.BEL.EU [44.144.8.5]

PS (by PA2AGA)

This version obsoletes all versions of info-mac/comm/radio-im-mac in
the Sumex-Aim archives.

The new IM/Mac has (hopefully) been uploaded to oak.oakland.edu, to
the directory pub/hamradio/incoming and to ftp.ucsd.edu, to directory
/hamradio/packet/tcpip/incoming. If it's not there (anymore), then
look at /hamradio/packet/tcpip/mac.

Date: Sat, 27 Aug 1994 18:44:32 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!pineapp@network.ucsd.edu
Subject: Jnos and PK232MBX ?
To: ham-digital@ucsd.edu

 I have a pk232 that was upgraded to a pk232MBX. I would like
to use this for 2 meter tcp/ip. The question is do I need to
have a battery install in the pk232? The reason for the
question is that when I purchased the pk232 the manual stated that
do not put batteries in. With the upgrade kit it came with a
nicad battery. I have not install the nicad.

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.---+---------------------------.
INTERNET: pineapp@netcom.com (DC436)	Daniel Curry WB6STW
AMPRNET : dan@wb6stw.ampr.org [44.4.20.144]	E-:-) Ham Radio Operator
AX.25 : wb6stw@n0ary.#NOCAL.CA.USA.NA	Redwood City, CA USA
'---+---------------------------'

Date: 28 Aug 1994 09:06:03 -0700
From: nntp.crl.com!crl4.crl.com!not-for-mail@decwrl.dec.com
Subject: Jnos and PK232MBX ?
To: ham-digital@ucsd.edu

In article <pineappCv7Iq8.JEp@netcom.com>,
pineapp@netcom.com (Daniel Curry) wrote:

> I have a pk232 that was upgraded to a pk232MBX. I would like
> to use this for 2 meter tcp/ip. The question is do I need to
> have a battery install in the pk232?

The battery will power your PK's volatile memory so you can save many
of the parameters while the PK-232 is turned OFF. For instance,
without a battery, you must enter MYCALL every time you turn the
PK-232 ON, prior to using it to transmit in AX.25 (or other) modes.

If your computer / comm program loads the appropriate values into each
parameter during its initialization sequence, you don't need a
battery. Most versions of NOS require all appropriate parameters be
identified in the AUTOEXEC.NOS file. In other words, NOS will load
the PK's parameters every time you invoke NOS, so a battery is not
necessary.

Lou

Date: 27 Aug 1994 08:28:39 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!wupost!waikato!
auckland.ac.nz!status.gen.nz!iconz.co.nz!paulb@network.ucsd.edu
Subject: JVFAX 7.00 Excellent !!!
To: ham-digital@ucsd.edu

Hello all,

Just rec'd JVFAX 7.0 from DK8JV.

Fantastic job !!!

Not sure if available via ftp from EU or USA.

This has to be one of the best ever !!!

Have used JVF 6.0 ; JVF 7.0 beta ; now the final release.

Has all of 6.0 and also highcolor 64k mode 800x600, Scott-DX, Robot 72.

Cheers

Paul b
ZL1AJY
Auckland NZ

Date: 28 Aug 1994 22:48:02 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: MSYS and WP pages
To: ham-digital@ucsd.edu

> Does anyone know how can I change, in MSYS117, the packet address where
>: the system automatically sends WP pages updates??? I have a real
problem

You can also set the Mastersrv command to NONE and no WP updates will be
sent, if that interests you...

Good Luck... KD6ZZM

Date: Sun, 28 Aug 1994 17:20:43 GMT
From: ihnp4.ucsd.edu!agate!usenet.ins.cwru.edu!news.csuohio.edu!
sww@network.ucsd.edu
Subject: MSYS and WP pages
To: ham-digital@ucsd.edu

Demetre Ch. Valaris (sv1uy@nest.sv1uy.ampr.ORG) wrote:
: Does anyone know how can I change, in MSYS117, the packet address where
: the system automatically sends WP pages updates??? I have a real problem
: here and the manual does not explain anything about this. I have the f......
: manual but no joy.
: +--+

Page 56, the command MASTERSRV is explained.

MASTERSRV N6IYA.#NOCAL.CA.USA.NA

in your MSYS.DO will do it for you.

73,
Steve

     ag807@cleveland.freenet.edu
     no8m@no8m.#neoh.oh.usa.na

Date: 28 Aug 94 17:29:19 GMT
From: news.delphi.com!BIX.com!jbailey@uunet.uu.net
Subject: RS232 and RTTY? Which pin is which?
To: ham-digital@ucsd.edu

I would like to connect to a RS232c connecter on my computer.
Which pin to I connect to to sense oONs and OFFs? What
code do I need to convert the pulses to text?
Thanks for any info you can give me on an interface
and receiving software. J bailey\[D[D

Date: Sat, 27 Aug 1994 10:19:13 GMT
From: dog.ee.lbl.gov!agate!library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!
eff!news.kei.com!news.byu.edu!netline-fddi.jpl.nasa.gov!nntp-server.caltech.edu!

news.cerf.net!@ihnp4.ucsd.edu
Subject: What SB for Digital modes?
To: ham-digital@ucsd.edu

Lance G Marshall (lgm@cup.portal.com) wrote:
: all digital is on LSB on 20 meters

Actually packet and pactor don't care which sideband you are on, as long as
they are tuned correctly. This is because packet encodes data on the tone
transitions, and pactor switches mark and space data on each consecutive
transmission block.

73, Bob
--

| Bob Donnell, kd7nm   bob@ethanac.kd7nm.ampr.org   rdonnell@eskimo.com |
| Western Washington Amateur IP Address Coordinator   (206) 775-3651 |

Date: Sat, 27 Aug 1994 10:38:37 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!usc!
elroy.jpl.nasa.gov!netline-fddi.jpl.nasa.gov!nntp-server.caltech.edu!
news.cerf.net!mvb.saic.com!eskimo!rdonnell@network.UCSD
Subject: Will my radio work as a packet station???
To: ham-digital@ucsd.edu

JoeSullivn (joesullivn@aol.com) wrote:
: I have a Baycom modem that I got from A&A engineering. I wish to hook it
: up to one of my radios to run packet but I have heard that some radios do
: not switch fast enough from transmit to receive? My possible radios are:
: Azden PCS-3000
: Yaesu FT-207R
: Icom 02-AT
: Standard SR-C146A

: Will any of these radios work without modification?
: If not, can they be modified to work?
: Please e-mail JoeSullivn@AOL.com

The only radio of the bunch I would not reccomend is the IC-O2AT. This
radio has very slow TX->RX and RX->TX switching times, and as a result, if
you try to connect to a station that has a reasonably quick response time,
your radio will miss the beginning of the reply. In this area (greater
Seattle) the only complaints the NET/ROM node operators ever got from users
saying they needed more TX delay from the node were from IC-O2AT and Kenwood

TR-2500 owners. All the older and newer Icom HT's are OK, but the IC-Ox
series are slow. I can't effectivly use my IC-O3AT for packet locally, but
my IC-3AT works fine.

Also, contrary to popular belief, radios using relays for TR switching are
not usually as slow as radios using PLL's. This is because most of the
PLL'ed radios have only one PLL for both receiving and transmitting, and it
has to jump (typically) more than 10 MHz and get locked up to switch either
way. For example, the radio I use on 2 meters originally had a RX->TX
switching time of 40 mS. The relay was measured and determined to switch in
3 mS. By changing some time constants in the power switching circuitry, I
got the keyup time of the radio to 7 mS, which is as short as I decided to
go, and the unkey time down to 4 mS (the relay was the limiting factor
here). Most amateur PLL-equipped radios need at least 100 mS to get on
frequency and into TX. So if you have an old crystal-controlled rig kicking
around, and you know what frequency you need to be on for local packet
operations, don't hesitate to order up a set of crystals and get some more
milage out of the old rig. In some cases, its actually not too hard to
convert a relay-switched radio to solid-state switching, too.

73, Bob
 --

| Bob Donnell, kd7nm bob@ethanac.kd7nm.ampr.org rdonnell@eskimo.com | |
Western Washington Amateur IP Address Coordinator (206) 775-3651 |

End of Ham-Digital Digest V94 #288
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